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## GoolRC S65

# GoolRC S65 Mini Drone User Manual

Model: S65 | With 4K Camera, FPV Live Video, and Advanced Flight Modes

## 1. PRODUCT OVERVIEW

The GoolRC S65 Mini Drone is a compact and versatile quadcopter designed for both beginners and experienced pilots. It features a 4K camera for high-quality aerial photography and video recording, FPV (First Person View) live video transmission, and a range of intelligent flight functions.

### Key Features:

- **4K Camera:** Capture stunning photos and videos from the sky.
- **FPV Live Video:** Stream real-time footage to your smartphone.
- **Foldable Design:** Compact and easy to transport.
- **3D Flips:** Perform acrobatic maneuvers with ease.
- **Trajectory Flight:** Draw a path on your screen, and the drone will follow it.
- **Gesture Control:** Take photos or record videos with simple hand gestures.
- **Headless Mode:** Simplifies flight control by eliminating the need to adjust the drone's orientation.
- **One Key Takeoff/Landing:** Easy operation for beginners.



Image 1.1: The GoolRC S65 Mini Drone showcasing its 4K camera and various flight features like speed adjustment, headless mode, one-click takeoff/landing, trajectory flight, gesture photography, and 3D flip capabilities.

## 2. SETUP GUIDE

### 2.1. Unboxing and Package Contents

Carefully unpack all items from the storage bag. Verify that all components are present:

- 1 x GoolRC S65 Mini Drone
- 1 x Remote Controller
- 1 x Drone Battery (3.7V 650mAh)
- 1 x USB Charging Cable
- 4 x Spare Propellers
- 4 x Protection Rings
- 1 x Screwdriver
- 1 x User Manual (this document)
- 1 x Storage Bag

# Product configuration



Image 2.1: All components included in the GoolRC S65 Mini Drone package, including the drone, remote controller, storage bag, propellers, USB cable, and screwdriver.

## 2.2. Battery Installation and Charging

1. **Drone Battery:** Insert the provided 3.7V 650mAh battery into the drone's battery compartment. Ensure it clicks securely into place.
2. **Charging:** Connect the drone battery to the USB charging cable, then plug the USB cable into a 5V/1A USB power adapter (not included). The charging time is approximately 40 minutes. The indicator light on the USB cable will change to indicate charging status (e.g., red for charging, off for fully charged).
3. **Remote Controller Batteries:** Open the battery compartment on the back of the remote controller. Insert 3 x AAA batteries (not included), ensuring correct polarity. Close the compartment.

# Own what others don't have

## The design of the remote control storage dark warehouse!

The back of the remote control adopts a special design, and two UAV batteries can be installed on each side. Pool, so that you can easily spare two batteries at all times, easy to install and take!

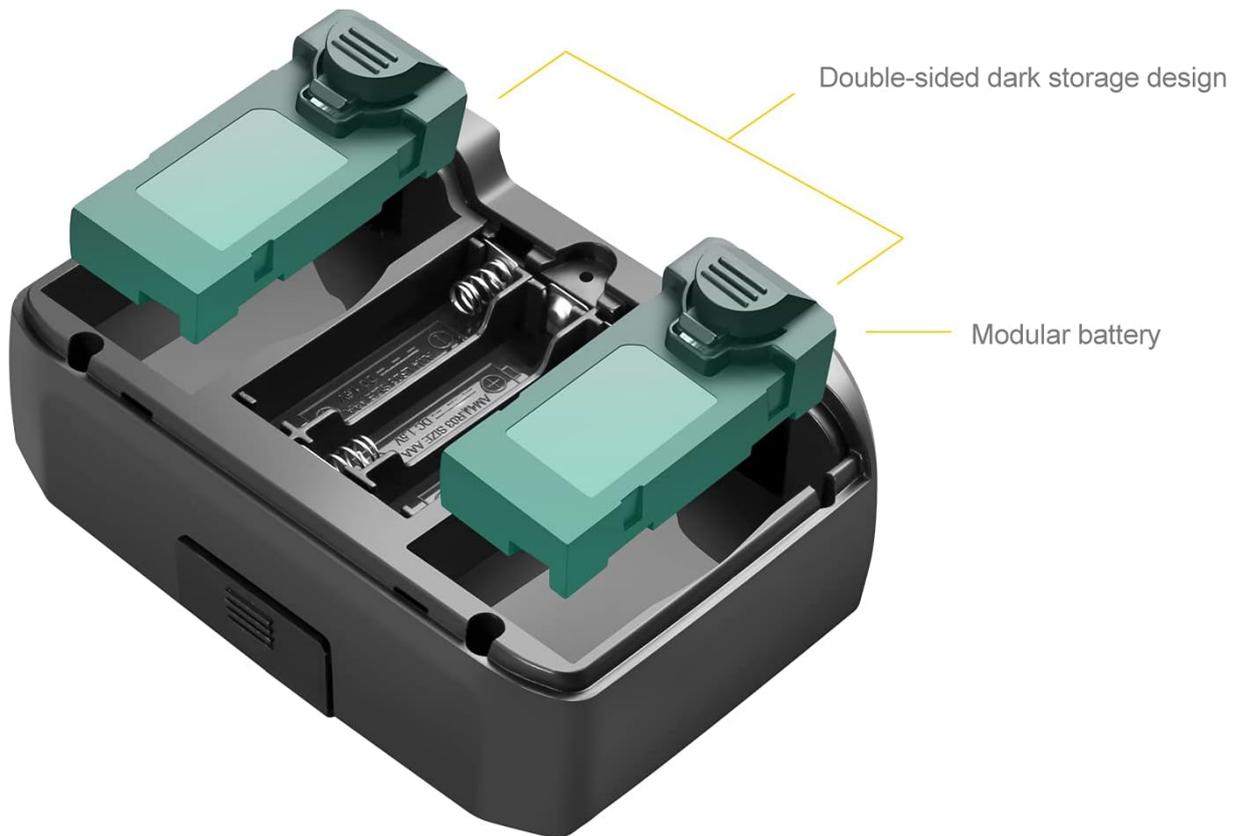


Image 2.2: The remote controller features a double-sided storage design for two modular drone batteries, making it convenient to carry spare batteries.

### 2.3. Propeller and Protection Ring Installation

1. Attach the protection rings to the drone's arms by snapping them into place. This helps protect the propellers during flight.
2. If replacing propellers, ensure you match the correct propeller type (A or B) to the corresponding motor arm as indicated on the drone. Use the provided screwdriver to secure them.

### 2.4. App Download and Connection

To utilize FPV and advanced flight modes, download the dedicated GoolRC drone app on your smartphone.

- Scan the QR code in the quick start guide (if provided) or search for the app name in your device's app store.
- Ensure your mobile phone system is Android 5.0 or above, or iOS 9.0 or above.
- Turn on the drone and your smartphone's Wi-Fi. Connect to the drone's Wi-Fi network (usually named something like "GoolRC-S65-XXXX").

- Open the app to establish a connection and view the live FPV feed.

## 3. OPERATING INSTRUCTIONS

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### 3.1. Basic Flight Controls

Familiarize yourself with the remote controller layout and basic flight movements:

- **Throttle (Left Stick Up/Down):** Controls altitude (ascend/descend).
- **Yaw (Left Stick Left/Right):** Rotates the drone left or right.
- **Forward/Backward (Right Stick Up/Down):** Moves the drone forward or backward.
- **Sideward Flight (Right Stick Left/Right):** Moves the drone left or right sideways.

### 3.2. One Key Takeoff/Landing

Press the One Key Takeoff/Landing button on the remote controller. The drone will automatically take off and hover at a certain altitude, or land gently.

### 3.3. Headless Mode

Activate Headless Mode by pressing its dedicated button. In this mode, the drone's orientation is irrelevant; it will always move relative to the pilot's position. Press the button again to exit Headless Mode.

### 3.4. 3D Flips

To perform a 3D flip, fly the drone to a sufficient height (at least 3 meters). Press the 3D Flip button, then quickly push the right control stick in the desired flip direction (forward, backward, left, or right).

### 3.5. Trajectory Flight

Using the companion app, you can draw a flight path on your smartphone screen. The drone will then automatically follow this trajectory, providing an automated flight experience.

# Experience without remote control

## Fly on the trajectory!

Through the mobile phone, turn on the trajectory finger function on the app to draw the flight you want Trajectory, the drone will immediately follow the trajectory you draw, without extra operations Control, you can achieve automated flight, smarter and more fun.



Image 3.1: The drone following a pre-drawn trajectory on a map, demonstrating the Trajectory Flight feature.

### 3.6. Gesture Control (Photo/Video)

The drone's camera supports gesture recognition for taking photos and videos:

- **Photo Gesture:** Make a "V" sign with your fingers towards the camera to take a photo.
- **Video Gesture:** Make a fist towards the camera to start/stop video recording.

Fun taking pictures

## Gesture photo and video

During the flight, aim at the camera  
Make corresponding gestures, drone  
You can take photos or videos.



Yeas take pictures



Fist video



Image 3.2: Illustrations of hand gestures for taking photos (V-sign) and recording videos (fist) using the drone's camera.

### 3.7. Gravity Sensor Control

Some models or app versions may support gravity sensor control, allowing you to control the drone's direction by tilting your smartphone.



Image 3.3: A smartphone being used to control the drone's flight direction via its built-in gravity sensor.

### **3.8. Camera Functions**

The integrated 4K camera captures high-resolution images and videos. Use the app to access camera settings, view the live feed, and initiate recording. The drone also supports digital zoom up to 50x via the mobile app.

Free framing

50x zoom,  
no fear of distant view

50 times zoom can be achieved by mobile phone  
Focus shooting, no longer afraid of high altitude  
Long-term view, more freedom of framing.



Image 3.4: The drone flying over a landscape, demonstrating its 50x zoom capability for capturing distant views.

## 4. MAINTENANCE

### 4.1. Cleaning

Regularly clean the drone body and camera lens with a soft, dry cloth. Avoid using harsh chemicals or solvents.

### 4.2. Propeller Care

Inspect propellers before and after each flight for any damage (cracks, bends). Replace damaged propellers immediately using the provided spare parts and screwdriver. Ensure propellers are installed correctly (A to A, B to B).

### 4.3. Battery Storage

When not in use for extended periods, store drone batteries at approximately 50% charge in a cool, dry place. Do not store fully charged or fully depleted batteries.

## 5. TROUBLESHOOTING

If you encounter issues with your GoolRC S65 Mini Drone, refer to the following common problems and solutions:

- **Drone does not respond to controller:** Ensure both drone and controller are powered on and properly paired. Check controller batteries.
- **Poor FPV video feed or disconnection:** Ensure your smartphone is within the image transmission distance (approx. 30-40m) and there is minimal Wi-Fi interference. Reconnect to the drone's Wi-Fi network.
- **Short flight time:** Ensure the drone battery is fully charged. Battery performance can degrade over time; consider replacing old batteries.
- **Drone drifts during flight:** Perform a gyroscope calibration as instructed in the app or quick start guide. Check for damaged propellers.
- **Camera not recording/taking photos:** Ensure sufficient storage space on your smartphone (if saving to phone) or an inserted SD card (if applicable). Check app permissions.

For further assistance, please contact GoolRC customer support.

## 6. SPECIFICATIONS

Feature	Specification
Brand	GoolRC
Model Name	S65
Material	ABS
Motor Type	Brushed Motor
Frequency	2.4Ghz
Charging Time	Approx. 40 minutes
Flying Time	Approx. 10-12 minutes
Remote Control Distance	Approx. 80-100 meters
Front Camera Photo Resolution	4096*2160P (4K)
Front Camera Video Resolution	1920*1080P
Applicable Mobile Phone System	Android 5.0+, iOS 9.0+
Image Transmission Distance	Approx. 30-40 meters
Drone Battery	3.7V 650mAh
Remote Controller Battery	3* AAA battery (not included)
Unfolded Size	13 * 11 * 4 cm (5.12"L x 4.33"W x 1.57"H)
Folded Size	9 * 5.5 * 4 cm
Drone Weight	59g (2.08 oz)

Skill Level	Beginner
Control Type	Gesture Control, RC
Wireless Communication	Wi-Fi
Recommended Age	14 years and up

## 7. SUPPORT INFORMATION

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For any questions, issues, or technical support regarding your GoolRC S65 Mini Drone, please contact the GoolRC store or authorized customer service channels. Refer to your purchase documentation for specific contact details.

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